

IN THE CLAIMS:

Please cancel Claims 8-12, without prejudice or disclaimer, and please amend Claims 1 and 4 as indicated below. The following is a complete listing of claims and replaces all prior versions and listings of claims in the present application:

Claim 1 (currently amended): An image pickup apparatus, comprising:

a plurality of pixels each including a first sensitive area and a second sensitive area, wherein the first and second sensitive areas corresponding to a first receive light flux of light fluxes respectively corresponding to different areas of an exit pupil ~~area~~ of an imaging optical system, ~~and a second sensitive area corresponding to a second light flux of the light fluxes~~ so that wherein two photoelectric conversion portions are formed in each of the plurality of pixels based on the first and second sensitive areas, and wherein a sensitivity distribution of the first sensitive area and a sensitivity distribution of the second sensitive area partially overlap; and

an output unit, ~~which that receives outputs~~ a first electric signal and a second electric signal from each of the plurality of pixels, to and that detects and outputs a phase difference between ~~the corresponding first electric signal and the second electric signals~~ from each of the plurality of pixels,

wherein the first ~~sensitive area~~ and the second sensitive areas of each of the plurality of pixels are arranged so that ~~each of the corresponding first electric signal and the second electric signals, output received~~ by the output unit, each includes signals generated in the first ~~sensitive area~~ and the second sensitive areas of a corresponding one of the plurality of pixels.

Claim 2 (withdrawn): An apparatus according to claim 1, wherein the plurality of pixels includes at least two types of pixels having different separation directions of the first and second photoelectric conversion portions.

Claim 3 (withdrawn): An apparatus according to claim 1, wherein the plurality of pixels includes at least two types of pixels having different sensitivity regions.

Claim 4 (previously presented): An apparatus according to claim 1, wherein the first and second sensitive areas are formed based on an F-number of the imaging optical system in detection of focus.

Claim 5 (withdrawn): An apparatus according to claim 1, wherein each of the plurality of pixels has a common amplification element adapted to amplify and output a signal from the first photoelectric conversion portion and a signal from the second photoelectric conversion portion, a first transfer switch adapted to transfer the signal from the first photoelectric conversion unit to the common amplification element, and a second transfer switch adapted to transfer the signal from the second photoelectric conversion portion to the common amplification element.

Claim 6 (withdrawn): An apparatus according to claim 5, further comprising a drive circuit adapted to control a first mode in which the signals from the first and second photoelectric conversion portions are added by an input unit of the common amplification element and output,

and a second mode in which the signals from the first and second photoelectric conversion portions are independently output from the common amplification element.

Claim 7 (withdrawn): An apparatus according to claim 1, further comprising

an A/D conversion circuit adapted to convert a signal from the image pickup element into a digital signal, and

a digital signal processing circuit adapted to process the signal from the A/D conversion circuit.

Claims 8-12 (canceled).